

## Recovery Plan Action Status

**Plan Name:** Recovery Plan for Marsh Sandwort (*Arenaria paludicola*) and Gambel's Watercress (*Rorippa gambelii*)

**Plan Status:** Final

**Plan Date:** 28-Sep-98

**Lead Agency:** USFWS

**Lead Office:** Ventura Fish And Wildlife Office

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644-1766 )

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Gambel's watercress ( <i>Rorippa gambelii</i> ), Marsh Sandwort ( <i>Arenaria paludicola</i> )	1	1.1	Coordinate among involved agencies	Ongoing Current	FY 2000 - FY 2004		U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	
Gambel's watercress ( <i>Rorippa gambelii</i> ), Marsh Sandwort ( <i>Arenaria paludicola</i> )	1	1.2.1	Define SRA boundary and restrictions	Not Started			San Luis Obispo Land Conservancy, San Luis Obispo County, California	Work type not yet selected	Labor type not yet selected	
Gambel's watercress ( <i>Rorippa gambelii</i> ), Marsh Sandwort ( <i>Arenaria paludicola</i> )	1	1.2.2	Enforce SRA boundary and restrictions	Not Started			San Luis Obispo County, California	Work type not yet selected	Labor type not yet selected	
Gambel's watercress ( <i>Rorippa gambelii</i> ), Marsh Sandwort ( <i>Arenaria paludicola</i> )	1	1.3.1	Establish agreements with private owners	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, San Luis Obispo County, California, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	
Gambel's watercress ( <i>Rorippa gambelii</i> ), Marsh Sandwort ( <i>Arenaria paludicola</i> )	1	1.3.2	Establish agreements with public owners	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, California Department of Parks and Recreation, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	

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Gambel's watercress (Rorippa gambellii), Marsh Sandwort (Arenaria paludicola)	1	1.4.1	Acquire land parcels	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, California Department of Parks and Recreation, California Department of Fish and Game, The Nature Conservancy	Work type not yet selected	Labor type not yet selected	
Gambel's watercress (Rorippa gambellii), Marsh Sandwort (Arenaria paludicola)	1	1.4.2	Acquire conservation easements	Not Started			U.S. Fish and Wildlife Service, California Department of Fish and Game, The Nature Conservancy	Work type not yet selected	Labor type not yet selected	
Gambel's watercress (Rorippa gambellii), Marsh Sandwort (Arenaria paludicola)	1	1.5.1	Conduct test removals of exotic species	Complete	Prior to FY 1995	FY 1995 - FY 1999	California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	
Gambel's watercress (Rorippa gambellii), Marsh Sandwort (Arenaria paludicola)	1	1.5.2	Remove exotic species and revegetate with natives at Black Lake Canyon	Partially Complete	Prior to FY 1995		California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	
Gambel's watercress (Rorippa gambellii), Marsh Sandwort (Arenaria paludicola)	1	1.5.3	Conduct long-term exotics control	Not Started			California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	
Gambel's watercress (Rorippa gambellii), Marsh Sandwort (Arenaria paludicola)	1	1.6.1	Maintain access restrictions at Oso Flaco	Not Started			The Nature Conservancy	Work type not yet selected	Labor type not yet selected	
Gambel's watercress (Rorippa gambellii), Marsh Sandwort (Arenaria paludicola)	1	1.6.3	Stabilize dunes in dune lakes area	Not Started			The Nature Conservancy	Work type not yet selected	Labor type not yet selected	
Gambel's watercress (Rorippa gambellii), Marsh Sandwort (Arenaria paludicola)	3	1.7.1	Develop and distribute informational materials	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	

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Gambel's watercress (Rorippa gambellii), Marsh Sandwort (Arenaria paludicola)	3	1.7.2	Hold public meetings	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	
Gambel's watercress (Rorippa gambellii), Marsh Sandwort (Arenaria paludicola)	2	2.1	Conduct surveys	Ongoing Current	FY 2000 - FY 2004		U.S. Fish and Wildlife Service, Ecological Services Division, California Department of Fish and Game, The Nature Conservancy	Work type not yet selected	Labor type not yet selected	
Gambel's watercress (Rorippa gambellii), Marsh Sandwort (Arenaria paludicola)	1	2.2	Protect newly discovered populations	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, California Department of Fish and Game, The Nature Conservancy	Work type not yet selected	Labor type not yet selected	
Gambel's watercress (Rorippa gambellii), Marsh Sandwort (Arenaria paludicola)	2	2.3	Monitor populations and habitats	Ongoing Current	FY 2000 - FY 2004		U.S. Fish and Wildlife Service, Ecological Services Division, California Department of Fish and Game, The Nature Conservancy	Work type not yet selected	Labor type not yet selected	
Gambel's watercress (Rorippa gambellii), Marsh Sandwort (Arenaria paludicola)	2	3.1	Identify impacts of research	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	
Gambel's watercress (Rorippa gambellii), Marsh Sandwort (Arenaria paludicola)	2	3.2	Determine population characteristics	Partially Complete	Prior to FY 1995		U.S. Fish and Wildlife Service, Ecological Services Division, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	
Gambel's watercress (Rorippa gambellii), Marsh Sandwort (Arenaria paludicola)	2	3.3	Evaluate tolerances	Ongoing Current	FY 2006		U.S. Fish and Wildlife Service, Ecological Services Division, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	
Gambel's watercress (Rorippa gambellii), Marsh Sandwort (Arenaria paludicola)	2	3.4	Investigate genetic diversity	Partially Complete	Prior to FY 1995		U.S. Fish and Wildlife Service, Ecological Services Division, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	

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Gambel's watercress (Rorippa gambellii), Marsh Sandwort (Arenaria paludicola)	1	4.1	Assess propagation material	Ongoing Current	FY 2000 - FY 2004		U.S. Fish and Wildlife Service, Ecological Services Division, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	
Gambel's watercress (Rorippa gambellii), Marsh Sandwort (Arenaria paludicola)	1	4.2	Conduct propagation experiments	Ongoing Current	FY 2000 - FY 2004		U.S. Fish and Wildlife Service, Ecological Services Division, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	
Gambel's watercress (Rorippa gambellii), Marsh Sandwort (Arenaria paludicola)	1	4.3	Establish greenhouse populations	Ongoing Current	FY 2000 - FY 2004		U.S. Fish and Wildlife Service, Ecological Services Division, Santa Barbara Botanic Garden, California Department of Fish and Game	Work type not yet selected	Contract	
Gambel's watercress (Rorippa gambellii), Marsh Sandwort (Arenaria paludicola)	1	4.4	Investigate methods for augmentation	Ongoing Current	FY 2009		U.S. Fish and Wildlife Service, Ecological Services Division, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	
Gambel's watercress (Rorippa gambellii), Marsh Sandwort (Arenaria paludicola)	1	4.5	Conduct experimental habitat enhancement	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, San Luis Obispo Land Conservancy, California Department of Fish and Game, The Nature Conservancy	Work type not yet selected	Labor type not yet selected	
Gambel's watercress (Rorippa gambellii), Marsh Sandwort (Arenaria paludicola)	1	4.6	Transplant to existing sites	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, San Luis Obispo Land Conservancy, California Department of Fish and Game, The Nature Conservancy	Work type not yet selected	Labor type not yet selected	

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Gambel's watercress (Rorippa gambellii), Marsh Sandwort (Arenaria paludicola)	1	4.7	Monitor experimental reintroductions	Ongoing Current	FY 2009		U.S. Fish and Wildlife Service, Ecological Services Division, San Luis Obispo Land Conservancy, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	
Gambel's watercress (Rorippa gambellii), Marsh Sandwort (Arenaria paludicola)	1	4.8	Conduct larger-scale outplantings	Not Started				Work type not yet selected	Labor type not yet selected	
Gambel's watercress (Rorippa gambellii), Marsh Sandwort (Arenaria paludicola)	1	5.1	Survey for new habitat	Ongoing Current	FY 2008		U.S. Fish and Wildlife Service, Ecological Services Division, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	
Gambel's watercress (Rorippa gambellii), Marsh Sandwort (Arenaria paludicola)	1	5.2	Conduct experimental habitat enhancement	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	
Gambel's watercress (Rorippa gambellii), Marsh Sandwort (Arenaria paludicola)	1	5.3	Apply habitat enhancement techniques	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	
Gambel's watercress (Rorippa gambellii), Marsh Sandwort (Arenaria paludicola)	1	5.4	Conduct experimental reintroductions	Ongoing Current	FY 2009		U.S. Fish and Wildlife Service, Ecological Services Division, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	
Gambel's watercress (Rorippa gambellii), Marsh Sandwort (Arenaria paludicola)	1	5.5	Monitor experimental reintroductions	Ongoing Current	FY 2009		U.S. Fish and Wildlife Service, Ecological Services Division, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	
Gambel's watercress (Rorippa gambellii), Marsh Sandwort (Arenaria paludicola)	1	5.6	Conduct large-scale outplantings	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	

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Gambel's watercress (Rorippa gambellii), Marsh Sandwort (Arenaria paludicola)	2	5.7	Monitor new populations	Ongoing Current	FY 2009		U.S. Fish and Wildlife Service, Ecological Services Division, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	
Gambel's watercress (Rorippa gambellii), Marsh Sandwort (Arenaria paludicola)	3	6.1	Refine quantitative recovery criteria	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	
Gambel's watercress (Rorippa gambellii), Marsh Sandwort (Arenaria paludicola)	3	6.2	Update management and recovery guidelines	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	